RESEARCH AIRCRAFT POSTFLIGHT INSPECTION (Lear-25)

NASA GLENN RESEARCH CENTER

DATE

To be accomplished after the last flight of the day and/or within 18 hours of next scheduled flight.
Record of accomplishment will be noted in space provided on this form and also the aircraft log.

AIRCRAFT	STATION

I. **PREPARATORY ACTION** *(In addition to fueling below, check aircraft log for maintenance and flight record. Insure all cockpit switches are off or in position as required for inspection; gust lock installed as req.)*

1. FUEL ADDED	2. ENGINE OIL ADDED *(Pts.)* L- R-
3. FUEL TOTAL	4. OIL TOTAL L- R-

II. **EXTERIOR INSPECTION** *(For condition and security)*

	ITEM	MECHANIC'S INITIALS
NOSE SECTION	Pitot tubes, static ports for damage	
	Pitot covers installed	
	"AOA" Vanes for damage	
	"AOA" Vane covers installed	
	Windshield general condition	
	Windshield de-icer outlets	
	Antennas for general condition and security	
	Nose panels, fasteners for security	
	Radome condition	
NOSE GEAR	Nose gear wheel well area, condition, leaks, cleanliness	
	Nose gear strut, steering unit, leaks, condition	
	Nose strut for proper inflation	
	Nose wheel/tire condition, inflation (105 +/- 5 PSI)	
	Nose gear door and attachments	
	Nose gear actuator	
LEFT MAIN GEAR	Landing light condition, security	
	Wheel/tire condition, inflation (115 +/- 5 PSI)	
	Brakes for wear	
	Brake lines, security, condition, leaks	
	Main gear actuator	
	Main gear strut, condition, inflation, leaks	
	Main gear door, brackets, linkage, fittings for condition	
	Switches, lines, for security, chafing and leaks	
LEFT WING	Open, loose access covers	
	Wing top/bottom for fuel, hydraulic leaks	
	Flaps, spoilers, ailerons for condition	
	Tip tanks condition, leaks	
	Navigation lights for condition	
	Static wicks for security/condition	

	ITEM	MECHANIC'S INITIALS
RIGHT MAIN GEAR	Landing light condition, security	
	Wheel/tire condition, inflation (115 +/- 5 PSI)	
	Brakes for wear	
	Brake lines, security, condition, leaks	
	Main gear actuator	
	Main gear strut, condition, inflation, leaks	
	Main gear door, brackets, linkage, fittings for condition	
	Switches, lines, for security, chafing and leaks	
RIGHT WING	Open, loose access covers	
	Wing top/bottom for fuel, hydraulic leaks	
	Flaps, spoilers, ailerons for security and condition	
	Tip tanks condition, leaks	
	Navigation lights for condition	
	Static wicks for security/condition	
AFT FUSELAGE	Vertical stabilizer, rudder, trim tab	
	Horizontal stabilizer, elevator, and static wicks	
	Hydraulic reservoir level, components for condition and leaks	
	Air conditioning components for condition and security	
	Batteries (disconnected), electrical equipment for condition	
	Engine fire extinguisher discharge discs condition	
	Oxygen cylinder indicator	
	Antennas for condition, security	

LEFT ENGINE & NACELLE	Engine oil quantity (shutdown)		RIGHT ENGINE & NACELLE	Engine oil quantity (shutdown)	
	Engine inlet duct condition			Engine inlet duct condition	
	Engine bulletnose, frame struts, inlet guide vanes for condition			Engine bulletnose, frame struts, inlet guide vanes for condition	
	Rotor, stator vanes for condition			Rotor, stator vanes for condition	
	Intake dust plugs installed			Intake dust plugs installed	
	Nacelle cowling condition, security, leaks			Nacelle cowling condition, security, leaks	
	Thrust reverser buckets condition			Thrust reverser buckets condition	
	Thrust reverser linkage			Thrust reverser linkage	
	Thrust reverser pins installed			Thrust reverser pins installed	
	Exhaust nozzle condition			Exhaust nozzle condition	
	Thermocouple, pressure probes, visible turbine blades for condition			Thermocouple, pressure probes, visible turbine blades for condition	
COCKPIT/CABIN	Cleanliness				
	Operation of all exterior, interior lights				
	Oxygen system correct pressure				
	Emergency air system pressure				
	Cabin stairway/door locking pins, latching fittings, for condition and security				
	Install gust lock (if required)				

MAINTENANCE RELEASE *(Signature)*	DATE
INSPECTOR *(Signature)*	DATE
PILOT'S ACCEPTANCE *(Signature)*	DATE